

Jia Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

9,029
citations

29
h-index

62
g-index

62
ext. papers

10,649
ext. citations

13.6
avg, IF

6.22
L-index

#	Paper	IF	Citations
55	Stretchable Mesh Nanoelectronics for Three-Dimensional Single-Cell Chronic Electrophysiology from Developing Brain Organoids.. <i>Advanced Materials</i> , 2022 , e2106829	24	5
54	Chemically Modified mocRNAs for Highly Efficient Protein Expression in Mammalian Cells.. <i>ACS Chemical Biology</i> , 2022 ,	4.9	1
53	Soft bioelectronics for cardiac interfaces. <i>Biophysics Reviews</i> , 2022 , 3, 011301	2.6	0
52	Lanthanide-containing persistent luminescence materials with superbright red afterglow and excellent solution processability. <i>Science China Chemistry</i> , 2021 , 64, 2125	7.9	4
51	ClusterMap for multi-scale clustering analysis of spatial gene expression. <i>Nature Communications</i> , 2021 , 12, 5909	17.4	11
50	Antimicrobial and Immunomodulating Activities of Two Endemic Species and Their Major Iridoids Isolated from Natural Sources. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	5
49	Functional nanomaterial-enabled synthetic biology. <i>Nano Futures</i> , 2021 , 5, 022001	3.6	3
48	From Lithographically Patternable to Genetically Patternable Electronic Materials for Miniaturized, Scalable, and Soft Implantable Bioelectronics to Interface with Nervous and Cardiac Systems. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 101-118	4	12
47	Elevated serum 4HNE plus decreased serum thioredoxin: Unique feature and implications for acute exacerbation of chronic obstructive pulmonary disease. <i>PLoS ONE</i> , 2021 , 16, e0245810	3.7	2
46	Emerging Bioelectronics for Brain Organoid Electrophysiology. <i>Journal of Molecular Biology</i> , 2021 , 1671655	6.5	4
45	New insights into serum/extracellular thioredoxin in regulating hepatic insulin receptor activation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129630	4	1
44	Stretchable Electrets: Nanoparticle-Elastomer Composites. <i>Nano Letters</i> , 2020 , 20, 4580-4587	11.5	9
43	Intrinsically stretchable electrode array enabled in vivo electrophysiological mapping of atrial fibrillation at cellular resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14769-14778	11.5	50
42	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , 2020 , 367, 1372-1376	33.3	70
41	Fully stretchable active-matrix organic light-emitting electrochemical cell array. <i>Nature Communications</i> , 2020 , 11, 3362	17.4	47
40	"Recent advances on support materials for lipase immobilization and applicability as biocatalysts in inhibitors screening methods"-A review. <i>Analytica Chimica Acta</i> , 2020 , 1101, 9-22	6.6	40
39	Fundamental Limits to the Electrochemical Impedance Stability of Dielectric Elastomers in Bioelectronics. <i>Nano Letters</i> , 2020 , 20, 224-233	11.5	18

38	Cyborg Organoids: Implantation of Nanoelectronics via Organogenesis for Tissue-Wide Electrophysiology. <i>Nano Letters</i> , 2019 , 19, 5781-5789	11.5	67
37	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. <i>Nature Biomedical Engineering</i> , 2019 , 3, 58-68	19	284
36	Syringe Injectable Electronics. <i>Springer Theses</i> , 2018 , 65-93	0.1	18
35	Three-dimensional intact-tissue sequencing of single-cell transcriptional states. <i>Science</i> , 2018 , 361,	33.3	482
34	Three-Dimensional Macroporous Nanoelectronics Network. <i>Springer Theses</i> , 2018 , 15-25	0.1	
33	Roadmap on semiconductor-cell biointerfaces. <i>Physical Biology</i> , 2018 , 15, 031002	3	34
32	Biomimetics Through Nanoelectronics. <i>Springer Theses</i> , 2018 ,	0.1	1
31	A bioinspired flexible organic artificial afferent nerve. <i>Science</i> , 2018 , 360, 998-1003	33.3	637
30	A highly stretchable, transparent, and conductive polymer. <i>Science Advances</i> , 2017 , 3, e1602076	14.3	674
29	Biocompatible and totally disintegrable semiconducting polymer for ultrathin and ultralightweight transient electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5107-5112	11.5	255
28	Fast and reversible thermoresponsive polymer switching materials for safer batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	190
27	Three-dimensional mapping and regulation of action potential propagation in nanoelectronics-innervated tissues. <i>Nature Nanotechnology</i> , 2016 , 11, 776-82	28.7	124
26	Pursuing prosthetic electronic skin. <i>Nature Materials</i> , 2016 , 15, 937-50	27	1324
25	Three-dimensional macroporous nanoelectronic networks as minimally invasive brain probes. <i>Nature Materials</i> , 2015 , 14, 1286-92	27	246
24	Syringe-injectable electronics. <i>Nature Nanotechnology</i> , 2015 , 10, 629-636	28.7	416
23	Long term stability of nanowire nanoelectronics in physiological environments. <i>Nano Letters</i> , 2014 , 14, 1614-9	11.5	107
22	Nanoelectronics-biology frontier: From nanoscopic probes for action potential recording in live cells to three-dimensional cyborg tissues. <i>Nano Today</i> , 2013 , 8, 351-373	17.9	101
21	Engineering the mesopores of Fe ₃ O ₄ @mesosilica core-shell nanospheres through a solvothermal post-treatment method. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 582-7	4.5	6

20	Multifunctional three-dimensional macroporous nanoelectronic networks for smart materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6694-9	11.5	72
19	Macroporous nanowire nanoelectronic scaffolds for synthetic tissues. <i>Nature Materials</i> , 2012 , 11, 986-9427	4.7	494
18	Scanning tunneling microscopy investigation of copper phthalocyanine and truxenone derivative binary superstructures on graphite. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 424-9	4.5	4
17	Shape-persistent two-component 2D networks with atomic-size tunability. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 2426-30	4.5	9
16	Chiral hierarchical molecular nanostructures on two-dimensional surface by controllable ternary self-assembly. <i>Journal of the American Chemical Society</i> , 2011 , 133, 21010-5	16.4	85
15	Solvent-controlled 2D host-guest (2,7,12-trihexyloxytruxene/coronene) molecular nanostructures at organic liquid/solid interface investigated by scanning tunneling microscopy. <i>Langmuir</i> , 2010 , 26, 8195-200	5.0	50
14	Multifunctional mesoporous composite microspheres with well-designed nanostructure: a highly integrated catalyst system. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8466-73	16.4	827
13	Human genome sequencing using unchained base reads on self-assembling DNA nanoarrays. <i>Science</i> , 2010 , 327, 78-81	33.3	928
12	Magnetic 3-D ordered macroporous silica templated from binary colloidal crystals and its application for effective removal of microcystin. <i>Microporous and Mesoporous Materials</i> , 2010 , 130, 26-31	5.3	32
11	Synthesis of Core/Shell Colloidal Magnetic Zeolite Microspheres for the Immobilization of Trypsin. <i>Advanced Materials</i> , 2009 , 21, 1377-1382	24	259
10	Highly Water-Dispersible Biocompatible Magnetite Particles with Low Cytotoxicity Stabilized by Citrate Groups. <i>Angewandte Chemie</i> , 2009 , 121, 5989-5993	3.6	138
9	Highly water-dispersible biocompatible magnetite particles with low cytotoxicity stabilized by citrate groups. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5875-9	16.4	703
8	A simple approach to the synthesis of hollow microspheres with magnetite/silica hybrid walls. <i>Journal of Colloid and Interface Science</i> , 2009 , 333, 329-34	9.3	28
7	A novel approach to the construction of 3-D ordered macrostructures with polyhedral particles. <i>Journal of Materials Chemistry</i> , 2008 , 18, 408-415		17
6	Ultra-Large-Pore Mesoporous Carbons Templated from Poly(ethylene oxide)-b-Polystyrene Diblock Copolymer by Adding Polystyrene Homopolymer as a Pore Expander. <i>Chemistry of Materials</i> , 2008 , 20, 7281-7286	9.6	108
5	Homopolymer induced phase evolution in mesoporous silica from evaporation induced self-assembly process. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 633-640	5.3	14
4	Cyborg Organoids: Implantation of Nanoelectronics via Organogenesis for Tissue-Wide Electrophysiology		2
3	In situ electro-sequencing in three-dimensional tissues		4

- 2 A method for three-dimensional single-cell chronic electrophysiology from developing brain organoids 1
- 1 ClusterMap: multi-scale clustering analysis of spatial gene expression 3